

# 4<sup>th</sup> Grade

## Main Rangefinder 4

Your

Minimal or  
non-existent  
errors

the entire test to you before you begin.  
calculator on this assessment.

- 1 The local zoo keepers counted their animals and found they had 4 tigers, 27 deer, 105 birds, 31 goats, 5 bears and 18 monkeys.

- a. How many animals do the zoo keepers have altogether? Show or explain how you found your answer.

$$\begin{array}{r} 34 \text{ tigers} \\ 27 \text{ deer} \\ 105 \text{ birds} \\ 31 \text{ goats} \\ 5 \text{ bear} \\ + 18 \text{ monkeys} \\ \hline 190 \text{ animals} \end{array}$$

- b. How many more birds than deer do the zoo keepers have right now? Show or explain how you found your answer.

$$\begin{array}{r} 105 \text{ birds} \\ - 27 \text{ deer} \\ \hline 78 \text{ more birds} \end{array}$$

Advanced  
application of  
basic skills

- c. The zoo keepers want to triple the number of goats. How many goats they have after they triple the number? Show or explain how you found your answer.

$$\begin{array}{r} 31 \\ \times 3 \\ \hline 93 \end{array}$$

93 goats

They will have 93 goats

- needs to divide the monkeys into two cages? Show or explain how you found your answer.

$$\begin{array}{r} 9 \\ 2 \overline{) 18} \\ \underline{18} \\ 0 \end{array}$$
$$\begin{array}{r} 9 \\ \times 2 \\ \hline 18 \end{array}$$

They need to put 9 monkeys in each cage

Read problems 2, 3, 4, and 5 on this and the next two pages. Select three problems to answer. Answer ALL of the parts of the three problems you select to answer. Cross out the one problem that you do not want to answer.

Effective  
problem-solving  
strategies

- 2 Jane and Sam have messy rooms. They cleaned their rooms on the 1st. Then they set up a cleaning schedule for January. Jane will clean her room every 3<sup>rd</sup> day. Sam will clean his room every 5<sup>th</sup> day.

- a. On which dates in January will Jane clean her room? Show or explain how you found your answer.

1/3 1/15 1/24  
1/6 1/18 1/27  
1/9 1/30  
1/12 1/21

January

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

- b. On which dates in January will Sam clean his room? Show or explain how you found your answer.

1/5 1/30  
1/10  
1/15  
1/20  
1/25

I counted by fives to get my answers.

- c. Who will clean their room the most days? Show or explain how you found your answer.

Jane will clean her room the most days.  
I counted each person's dates and I found Jane does.

- d. On which date(s) in January will they clean their rooms on the same day? Show or explain how you found your answer.

1/15  
1/30

I looked at the chart to find my answer.

- 3 Anna does chores each day after school. She feeds the animals for 20 minutes, collects eggs for 5 minutes, and cleans out the barn for 15 minutes.

- a. How much time will Anna spend doing her chores? Show or explain how you found your answer.

40 minutes I counted the times together.



- b. If Anna came home from school and started on her chores at 3:25, what time should she be finished with her chores? Show or explain how you found your answer.

4:05 I took 3:25 and counted 40 minutes.

- c. On Saturday Anna has the same chores to do. If Anna wants to finish her chores by 1:30, what time should she start doing her chores? Show or explain how you found your answer.

12:50 I counted back 40 minutes.

Advanced understanding of situations

Advanced use of symbols and communication skills

Higher-order thinking skills

- b. Which two shapes are the most alike and why?

- c. Which two shapes are the most different and why?

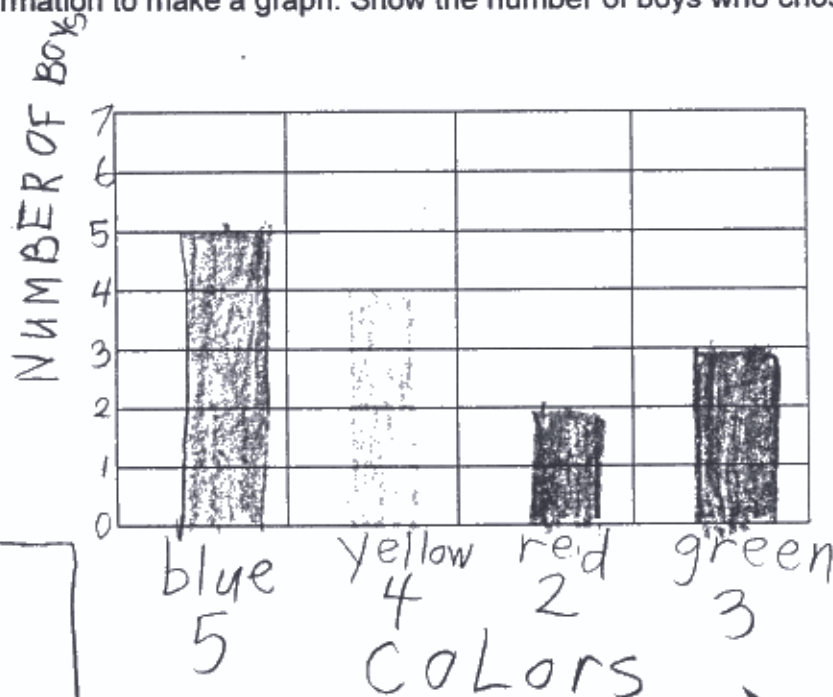
- 5 Jon asked all of the boys in his class to choose their favorite color. He recorded the responses in a notebook. The results are shown below.

Boy's Name	Color	Boy's Name	Color
James .....	blue	Josh .....	yellow
Chris .....	blue	Casey .....	red
Steve .....	yellow	Bob .....	green
Bill .....	blue	Tom .....	green
Mike .....	red	Vale .....	blue
Shawn .....	yellow	Ryan .....	yellow
Matt .....	blue	Jack .....	green

- a. Use tally marks to show the color choices the boys made.

blue      yellow      red      green  
 ||||      ||||      ||      |||

- b. Use Jon's information to make a graph. Show the number of boys who chose each color.



# KEY

blue •  
 yellow •  
 red •  
 green •

Advanced  
 communication  
 skills

Higher-order  
 thinking skills